

INTEGRATED CIRCUIT STRUCTURE HAVING
A FLIP-CHIP MOUNTED PHOTORECEIVER

5 ABSTRACT OF THE DISCLOSURE

 An apparatus comprising an integrated circuit
structure is provided. The integrated circuit structure
comprises a substrate and a photoreceiver. The substrate
has a first side and a second side opposite the first
10 side and includes a first light passage area operable to
allow light to pass through. The photoreceiver has an
aperture located on a first side of the photoreceiver and
is flip-chip mounted to the substrate such that the first
side of the photoreceiver faces the second side of the
15 substrate. The photoreceiver is operable to translate
light signals received through the aperture into digital
signals and to transmit the digital signals. The first
light passage area is aligned with the aperture of the
photoreceiver such that the light signals may be received
20 through the light passage area and into the aperture of
the photoreceiver.